# DoD Shelf-Life Extension System **SLES**

		MQCSS Data			Print	
National Stock Number:			Feedback			
Approved Item Name:						
Defect Characteristics Code:						
Inspection Type Code:				SL Code: SLC Challenge		
Inspection Level Code:		Reinspection Months:		Shelf-Life Type:		
Acceptable Quality Level:		Inspection Limit:		Shelf-Life Month:		
Item Type Storage Code:		Hazardous Materiel Code:		Source of Supply Code:		
Resources:	HMIRS website					
Technical Publications:						
Laboratory Remarks:						
Remarks:						
Record Last Updated:						

# How to Interpret MQCSS & QSL data Materiel Quality Control Storage Standards Quality Status List

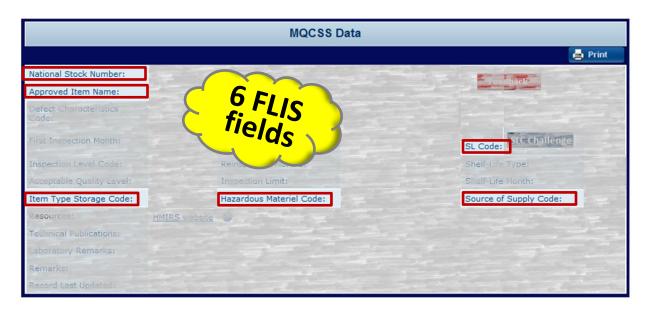
All data elements shown in this document are for training purposes only.

Please view the SLES databases for the most current MQCSS & QSL extension data.

### **MQCSS DATA ELEMENTS OVERVIEW**

#### MQCSS includes approx. 20 data elements total

6 fields are fed to SLES from FLIS (Federal Logistics Information Service)



- National Stock Number 4. Source of Supply
- 3. Shelf-Life Code

- 2. Approved Item Name 5. Item Type Storage Code \*
  - 6. Hazardous Materiel Code \*

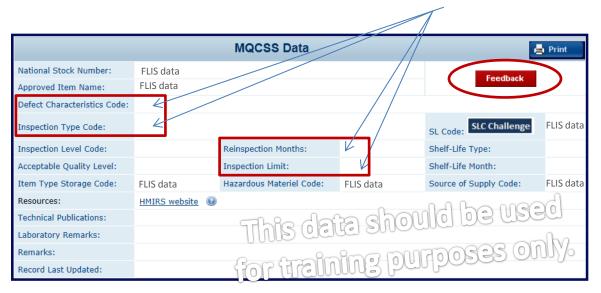
\* If available

The remaining fields displayed on the next side are updated by SLES Administrators.

# How to determine extendibility of an item of supply:

First, determine if all of the required MQCSS data elements are available in SLES

FOR <u>VISUAL INSPECTION</u>, the 4 elements highlighted here are required for extension:



If all 4 fields of extension criteria is not displayed in the SLES, Then you should submit a "Feedback".

The Product Specialist or Item Manager will research & Update the MQCSS data for the NSN.

All other fields shown can be helpful when included, however, they are not required to determine shelf-life extension.

# When should you inspect your items of supply on-hand?

For Type II items that have not been issued and will not be placed into service prior to the Inspect/Test Date:



#### If Required Inspection Type is VISUAL

#### First Inspection month is 6

The Shelf-Life extension process should begin 6 months prior to the Inspect/Test date.

MQCSS is the authority
to extend visually
tested materiel.

Inspections should take place while items are still in **Condition Code A!** 



QSL may be used as the authority to extend lab tested materiel.



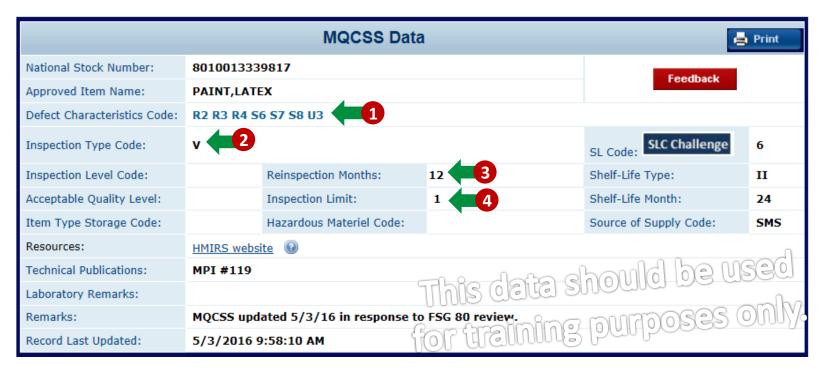
#### **If Required Inspection Type is LABORATORY**

#### First Inspection Month is 9

The Shelf-Life extension process should begin 9 months prior to the Inspect/Test date.

Materiel must PASS visual inspection prior to lab testing.

### **Prior to inspection: Is all required extension data present?**

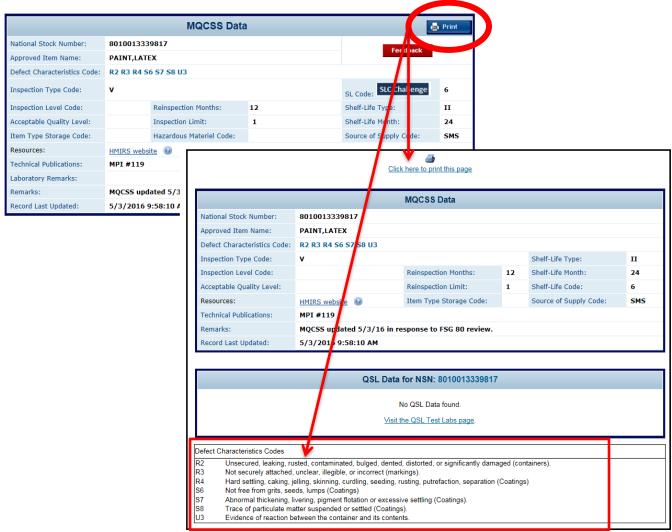


#### In this example - YES, all required extension data is displayed.

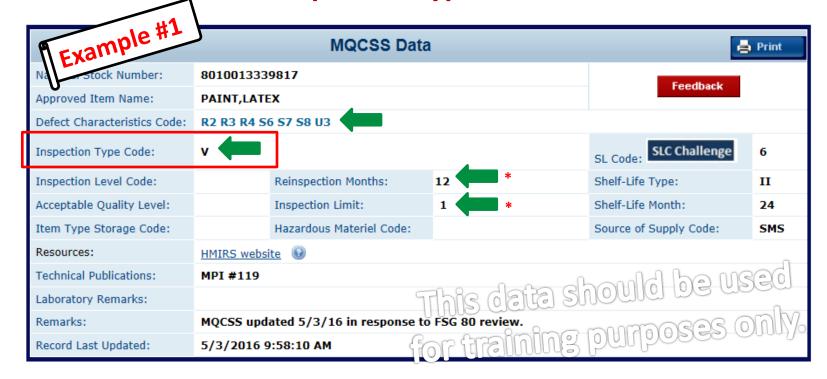
- 1. Defect Characteristics = R2, R3, R4, S6, S7, S8, U3
- 2. Inspection Type Code = 'V' (visual) only
- 3. Reinspection Months = 12
- 4. Inspection Limit = 1

Now let's understand what this data means...

If you print the record, the Defect Characteristics Codes will display on the page with the MQCSS Data.



# What is the inspection type code for the NSN?



#### In this example, the Inspection Type Code is 'V' (Visual only)

Next, you will inspect the materiel by using the 'Defect Characteristics Codes'

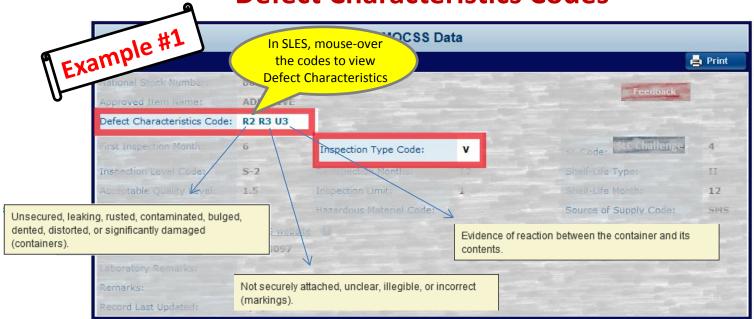
Remember - all items must 1<sup>st</sup> undergo VISUAL inspection!

The other Inspection Type Codes are shown a few slides down

L = Laboratory Inspection | M = Machine Testing | R = Restorative Action

(Note: \*Reinspection month / \*Inspection Limit are not critical for Lab tested items since QSL will determine test dates)

#### **Defect Characteristics Codes**



#### **Defect Characteristics Codes describe**

#### WHAT TO LOOK FOR when visually inspecting

materiel to determine serviceability of the item.

Remember to perform all inspections listed as Defect Characteristics Codes

**Example:** Code 'R2' = Unsecured, leaking, rusted, contaminated, bulged, dented, etc.

<u>Interpretation:</u> During the visual inspection, if any of the characteristics listed are present when inspecting the container, then this materiel is unusable, therefore you cannot extend the materiel.

(A full list of defect characteristics codes with descriptions may be found in the Joint Service Regulation DLAR 4155.37)

# PRIOR to Visual inspection, check the Inspection Limit!



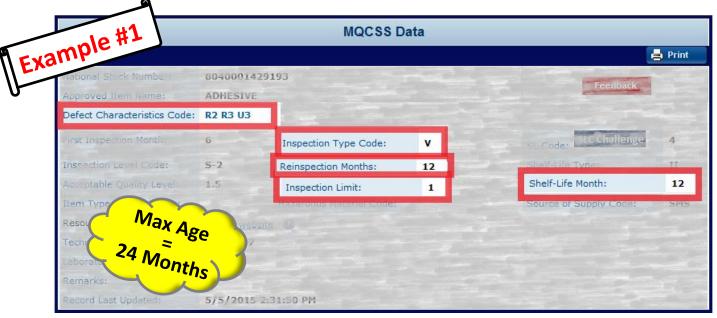
The inspection limit = the number of extensions possible. How to determine if Inspection Limit is exceeded?

#### STEP 1 of 2:

How many DD Form 2477 extension labels are fixed on the packaging? (This example NSN can have a maximum of 1 extension label in addition to the original manufacturer package markings – it can only be extended 1 time)

If this item already has already been extended 1 time as determined by the presence of DD Form 2477, then the shelf-life of the materiel has reached it's end and should be disposed of.

Can Shelf-Life be extended? or Has Shelf-Life ended?



The Reinspection Months = the number of months to extend

**STEP 2 of 2:** 

Add total time of all possible extensions to Date of Manufacture and compare to current date.

Calculate: DOM from package markings + 12 months Shelf-Life + 12 re-inspection months

DOM 02/2014 + 12 months Shelf-Life + 12 re-inspection months (24 months maximum age) First Inspection date = 02/2015, materiel must be used or disposed of no later than 02/2016

If visual inspection passes, you may extend the shelf-life of the materiel 12 months from the original expiration date. The total time of shelf-life for this item is 24 months.

# Shelf-Life Extension Notice DD Form 2477 w/ MQCSS markings

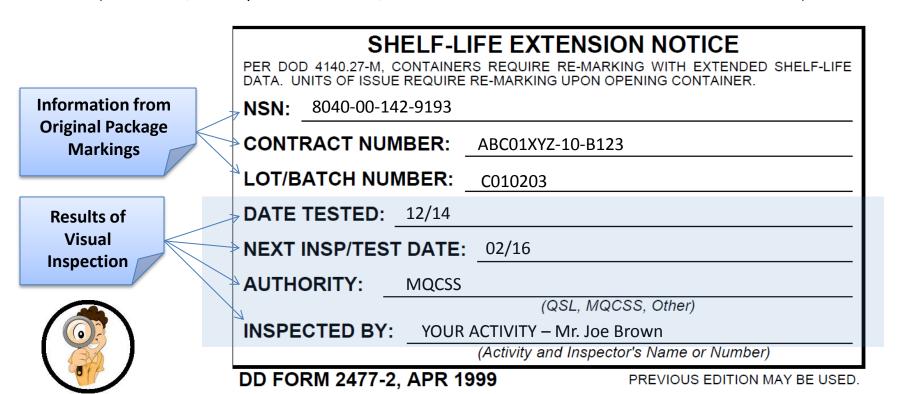
(Example for training purposes only)

Using the example on the previous slide - DOM is 02/14, inspection should take place within 6 months prior to 02/15

If visual inspection passes – extend for 12 months from original expiration date

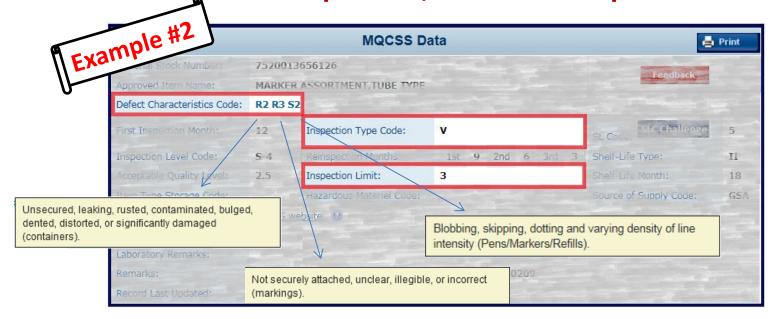
Next Insp/Test date is 02/16

(in this case, the inspection limit is '1', so this date will mean end of shelf-life for this materiel)



DoD Shalf Life Extension System | How to Interpret MOCSS 8, OSI data

# PRIOR to Visual inspection, check the Inspection Limit!



The inspection limit = the number of extensions possible. How to determine if Inspection Limit is exceeded?

#### STEP 1 of 2:

How many DD Form 2477 extension labels are fixed on the packaging?

(This example NSN can have a maximum of 3 extension labels in addition to the original manufacturer package markings – it can be extended a maximum of 3 times)

If this item already has already been extended 3 times as determined by the presence of DD Form 2477, then the shelf-life of the materiel has reached it's end and should be disposed of.

# Now let's discuss materiel which requires Visual & Laboratory testing

When Type II materiel reaches inspect/test date and it requires Visual Inspection & Laboratory Testing, always accomplish Visual inspection FIRST.

Only after passing visual inspection should you use the QSL to see if your exact <u>LOT/BATCH</u> has been tested and/or extended.



QSL extension data is valid only if the shelf-life stock has been stored per applicable storage standards as stated in <a href="FLIS Procedures Manual DOD 4100.39">FLIS Procedures Manual DOD 4100.39</a>, Vol 10, Table 182

# What is the inspection type code for the NSN?



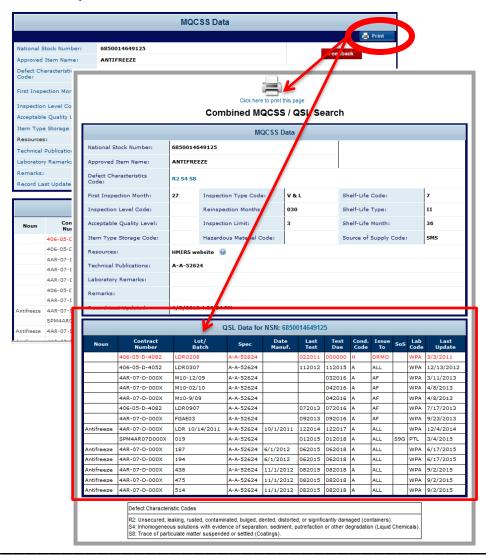
In this example, the Inspection Type Code is 'V & L' (Visual & Laboratory)

If the materiel passes ALL visual inspections, check the QSL to see if your LOT/BATCH has been tested & extended.

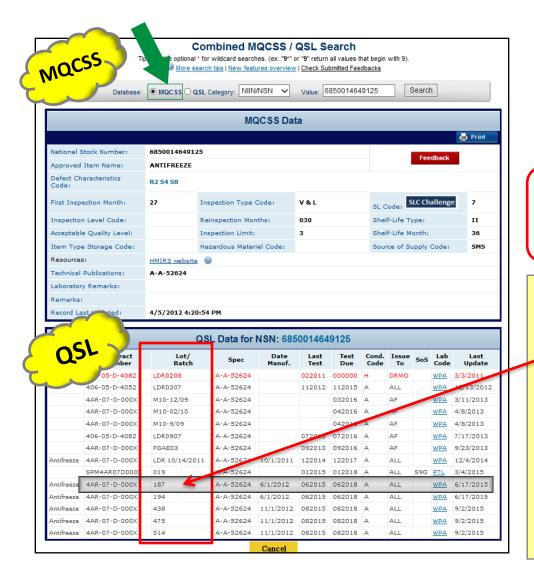
(See slide 21 for detailed lot/batch information)

\* Note: Reinspection Months & Inspection Limit are not critical on Laboratory tested items with QSL data as the Laboratory results will provide Next Insp/Test Date (test due)

Select the <u>PRINT</u> button to print the data set with the QSL results available in the database.



## How to tell if your Lot/Batch is in the QSL - Method 1



#### **Combined MQCSS/QSL Search**

Default search will return available data for both MQCSS and QSL databases.

The default return for QSL in this search will display results for:

- 1) Active PASSED (Condition Code 'A') plus (Active QSL data has been tested within 4 years)
- 2) ALL FAILED (Condition Code 'H')
  (Failed tests display in red)

If your lot/batch IS listed in QSL, then the item has already been tested by a DOD approved lab.

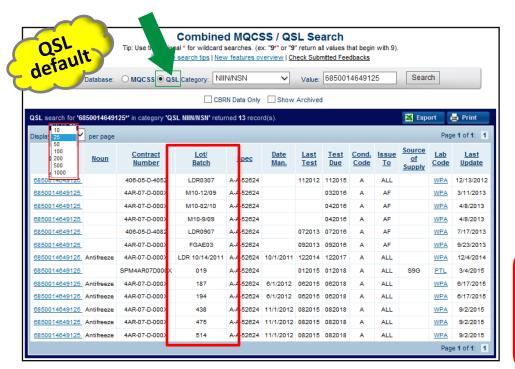
EX: You have materiel on hand for this NSN.

- Your lot/batch # is 187
- Verify the Contract Number (4AR-07-D-000X)
- Verify the DOM (6/1/2012)
- This item was tested in the 6<sup>th</sup> month of 2015
- QSL for this lot/batch was updated on 6/17/2015
- The Condition Code is 'A' (extendible)
- The Test Due date is when the item should be subjected to inspection/testing again. 06/2018

If your lot/batch <u>IS NOT</u> listed in the QSL, this indicates that is has NOT been tested.

See slide 21 for more information.

# How to tell if your Lot/Batch is in the QSL - Method 2



#### **QSL Search only**

Default search will return available data for the QSL database only.

(10 records display in QSL query by default) Select to display up to 1,000 records per page from the 'Display' drop-down box if needed.

The default return for QSL in this search will display results for:

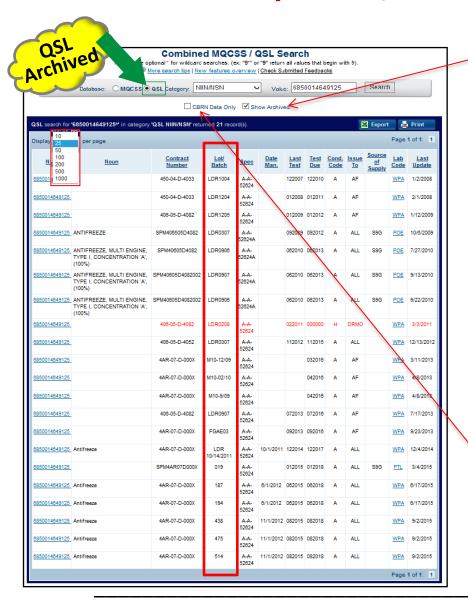
- 1) Active PASSED (Condition Code 'A') plus (Active QSL data has been tested within 4 years)
- 2) ACTIVE FAILED (Condition Code 'H')

(Active failed display in red, this NSN does not contain any active failed, so none are displayed)

If your lot/batch IS listed, this indicates that it has been tested; use the QSL test results for extending your material on hand.

If your lot/batch <u>IS NOT</u> listed in the QSL, this indicates that is has NOT been tested. See slide 21 for more information.

# How to tell if your Lot/Batch is in the QSL - Method 3



#### QSL Search only – SHOW ARCHIVED

Default search will return available data for the QSL database only.

(10 records display by default)
This NSN contains 21 QSL records. You can select to display up to 1,000 records per page from the 'Display' drop-down box if needed.

The default return for QSL in this search will display results for:

1) Active PASSED (Condition Code 'A') plus (Active QSL data has been tested within 4 years)

2) ALL FAILED (Condition Code 'H')

(Failed tests display in red)

NOTE: When a 'Test Due' date reaches 30 days past the date, the record becomes 'ARCHIVED' or hidden.



To return only CBRN (Chemical, Biological, Radioactive, Nuclear) materiel, select the check box next to 'CBRN Data Only'.



# QSL data – CBRN data

CBRN (Chemical, Biological, Radioactive, Nuclear) data can be identified with a yellow box with a 'C' inside.

To expand CBRN data, click on the + and the available data will be returned. Clicking on the NSN hyperlink will open the record to display MQCSS data plus QSL data.

CBRN data is fed from JACKS and will include 5 data field:

Contract Number, Lot Number, Date Manufactured, Next Inspection Date & Condition Code.

- 1													
+	V C 6645015412423	TIMER,INTER	RVAL										
#	C 6645015412425	TIMER,INTERVAL											
+		M258A1 Detector Kit, Chemical Agent											
=		M9 Paper,Chemical Agent Detector											
	Contract Number		Lot Number		Date Manuf		Next Inspection Date			Condition Code			
		liber	LOT NU	<u>imber</u>	Date	Manuf	Nex	t Inspec	tion Date	<u>e</u>	Condi	tion Co	de
Г		<u>iiber</u>	CCROOB			<u>Manuf</u> /2000	<u>Nex</u>	2/1/20		<u>e</u>	Condi	H H	<u>de</u>
F		nber		309010	2/1/		Nex		008	<u>e</u>	Condi		de
		nber	CCR00B	309010 309011	2/1/ 6/1/	/2000	Nex	2/1/20	008	<u>e</u>	Condi	н	<u>de</u>
		niber.	CCR00B	309010 309011 309012	2/1/ 6/1/ 10/1	/2000	<u>Nex</u>	2/1/20 6/1/20	008	e	Condi	н	de
		nuer	CCR00B CCR00F CCR00K	309010 309011 309012 309013	2/1/ 6/1/ 10/1 2/1/	/2000 /2000 1/2000	<u>Nex</u>	2/1/20 6/1/20 10/1/2	008 008 008 009	e	Condi	н н н	de

# What if your LOT/BATCH is not in the QSL?

If your lot/batch is not listed in the QSL, this indicates no one has sent the materiel to a DoD approved laboratory for shelf-life extension testing.

For most materiel, the owner is responsible for having their materiel tested and extended.

Typically the owner will factor in how much stock of that specific lot they have on hand, testing costs, transportations costs, disposal costs, availability of resupply, item criticality, etc. when determining if they should send their materiel in for shelf life extension testing.

**If you are the OWNER**, recommend checking the "Test Labs" page on the DoD website for labs capable of shelf-life extension testing.

If you are the STORAGE ACTIVITY, contact the owner for disposition instructions via a DD Form 1225 (Storage Quality Control Report).



Please keep in mind that shelf-life extension testing only extends shelf-life materiel that is unopened. Once materiel is opened, installed into its intended application, or introduced to mission requirements, shelf-life ends, service-life begins and shelf-life markings no longer apply.



Inspection criteria must be present in MQCSS to consider extending Type II Shelf-Life items.
If data is not present, submit a Feedback request to update MQCSS.
☐ MQCSS is the authority to extend VISUALLY tested materiel.
☐ QSL may be used as the authority to extend lab tested materiel.
☐ All materiel must first undergo a VISUAL inspection.
☐ For items requiring LAB test, the item must PASS visual inspection using the defect characteristics codes prior to lab test.

# Shelf-Life – Things to REMEMBER

□ At VISUAL inspection, perform all inspections listed as Defect Characteristics.
 □ Adhere to Inspection Limit by paying attention to the number of extension labels on materiel.
 □ Re-inspection Months is the number of months you may extend the Shelf-Life of an item.
 □ If your exact Lot/Batch is not listed in the SLES QSL, then that Lot/Batch has not been tested.

# DO YOU STILL HAVE QUESTIONS ABOUT SHELF-LIFE?

### **DOD Shelf-Life Manual 4140.27-M**

Official DOD Manual for the management of shelf-life materiel.

### **Shelf-Life Computer Based Training**

(Approx 7 hours to complete)

## **Shelf-Life Training Class**

Mechanicsburg, PA (Summer & Winter)

#### **General Questions or Technical Issues?**

E-mail: sles.dod@dla.mil